

P **Cinnamomum aromaticum**

Common Name(s)

Canela de la China (Sp.), Canelero chino (Sp.), Canelle de Cochinchine (Fr.), Cannelier Casse (Fr.), Cannelier de Chine (Fr.), Cassia, Cassia Bark, Cassia Ligneae, China Junk Cassia, Chinazimt (Ger.), Chinese Cassia, Chinese Cinnamon, Chinesischer Zimtbaum (Ger.), Kashia-Keih (Jap.), Saigon Cinnamon, Zimtcassie (Ger.)

How Used

G

Chemical Plant Part		Low	High	StdDev	Reference	Citation
		PPM	PPM			
30	(+)-CATECHIN	Bark	--	--	Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
38	(-)-EPICATECHIN	Bark	--	--	Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.	
67	1,8-CINEOLE	Bark	--	--	Wealth of India.	
67	1,8-CINEOLE	Plant	--	--		
0	19-MONOACETYL-CINCASSIOL-A	Plant	--	--		
0	2-HYDRO-ACETOPHENONE	Plant	--	--		
0	2-METHYL-BENZALDEHYDE	Plant	--	--		
0	2-METHYL-BUTYRIC-ACID	Plant	--	--		
0	2-VINYLPHENOL	Plant	--	--		
0	3,4,5-TRIMETHOXYPHENOL-BETA-D-APIOFURANOSYL(1->6)BETA-D-GLUCOPYRANOSIDE	Bark	--	--	Wealth of India.	
0	3-METHYL-BUTYRIC-ACID	Plant	--	--		
2	3-PHENYL-PROPYL-ACETATE	Plant	--	--		
0	3-PHENYLPROPANAL	Bark	39	490	1	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	3-PHENYLPROPANAL	Leaf	30	75	1	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	4-ALLYL-PHENOL	Plant	--	--		
0	4-ETHYL-GUAIACOL	Plant	--	--		
0	5,7,3-TRIMETHYL(-)-EPICATECHIN	Bark	--	--		Wealth of India.
0	5,7-DIMETHYL-3',4'-DI-O-METHYLENE-(+)-EPICATECHIN	Bark	--	--		Wealth of India.
0	ACETOEUGENOL	Plant	--	--		
0	ALCOHOLS	Bark	105	1300	-1	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	ALCOHOLS	Leaf	125	305	-0.8254391692690214	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	ALDEHYDES	Bark	1845	23040	-1	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.

Chemical Plant Part		Low	High	StdDev	Reference	Citation
		PPM	PPM			
0	ALDEHYDES					Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
28	ALPHA-PINENE	Plant	--	--		
28	ALPHA-PINENE	Bark	--	--		Wealth of India.
13	ALPHA-TERPINENE	Plant	--	--		
23	ALPHA-TERPINEOL	Plant	--	--		
23	ALPHA-TERPINEOL	Bark	--	--		
0	ANHYDROCINNZEYLANINE	Bark	--	--		Wealth of India.
0	ANHYDROCINNZEYLANINE	Plant	--	--		
0	ANHYDROCINNZEYLANOL	Bark	--	--		Wealth of India.
0	ANHYDROCINNZEYLANOL	Plant	--	--		
112	ASCORBIC-ACID	Bark	309	309	0.13185661758936892	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	BARIUM	Bark	140	140	1.724114679646174	
24	BENZALDEHYDE	Bark	--	--		
20	BENZOIC-ACID	Bark	--	--		Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
17	BENZYL-BENZOATE		Leaf 1800	22500	1	Wealth of India.
17	BENZYL-BENZOATE		Plant --	--		
53	BETA-CAROTENE		Bark 1	2	-0.7112344242846967	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	BETA-CARYOPHYLLENE		Leaf --	--		Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	BETA-CARYOPHYLLENE		Stem -- Bark	--		Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
13	BETA-PINENE		Plant --	--		
13	BETA-PINENE		Bark --	--		Wealth of India.
3	BETA-SELINENE		Plant --	--		
0	BROMINE		Bark 10	10	-0.707106781186548	
28	CALCIUM		Bark 4900	13569	-0.48777912900429643	
4	CALCIUM-OXALATE		Plant --	--		
9	CAMPHENE		Plant --	--		

	Chemical Plant Part	Low PPM	High PPM	StdDev	Reference	Citation
0	CARBOHYDRATES	Bark	798000	914000	1.2415331037573605	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	CASSIOSIDE	Bark	--	--		Wealth of India.
3	CHAVICOL	Plant	--	--		
7	CHLORINE	Bark	70	70	-1.5000780985604363	
24	CHROMIUM	Bark	1	1	-0.48598491785883197	
0	CINCASSIOL-A	Bark	--	--		Wealth of India.
0	CINCASSIOL-A	Plant	--	--		
0	CINCASSIOL-A-GLYCOSIDE	Bark	--	--		Wealth of India.
0	CINCASSIOL-B	Plant	--	--		
0	CINCASSIOL-B	Bark	--	--		Wealth of India.
0	CINCASSIOL-B-GLYCOSIDE	Bark	--	--		Wealth of India.
0	CINCASSIOL-C-1	Plant	--	--		
0	CINCASSIOL-C-1	Bark	--	--		Wealth of India.
0	CINCASSIOL-C-1-GLYCOSIDE	Bark	--	--		Wealth of India.
0	CINCASSIOL-C-2	Plant	--	--		
0	CINCASSIOL-C-2-GLYCOSIDE	Bark	--	--		Wealth of India.
0	CINCASSIOL-C-3	Plant	--	--		
0	CINCASSIOL-C-3-GLYCOSIDE	Bark	--	--		Wealth of India.
0	CINCASSIOL-D-1	Bark	--	--		Wealth of India.

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	CINCASSIOL-D-1	Plant	--	--		
0	CINCASSIOL-D-1-GLYCOSIDE	Bark	--	--		Wealth of India.
0	CINCASSIOL-D-2	Plant	--	--		
0	CINCASSIOL-D-2-GLYCOSIDE	Bark	--	--		Wealth of India.
0	CINCASSIOL-D-3	Plant	--	--		
0	CINCASSIOL-D-3-GLYCOSIDE	Bark	--	--		Wealth of India.
1	CINCASSIOL-D-4	Plant	--	--		
1	CINCASSIOL-D-4	Bark	--	--		Wealth of India.
0	CINCASSIOL-D-4-GLYCOSIDE	Bark	--	--		Wealth of India.
60	CINNAMALDEHYDE	Bark	80	1900	-1	
18	CINNAMIC-ACID	Bark	--	--		Wealth of India.
0	CINNAMIC-ALDEHYDE-CYCLIC-GLYCEROL-1,3-ACETAL	Bark	--	--		Wealth of India.
0	CINNAMOSIDE	Bark	--	--		Wealth of India.
0	CINNAMTANNIN-A1	Bark	--	--		
0	CINNAMTANNIN-A2	Bark	--	--		
0	CINNAMTANNIN-A3	Bark	--	--		
0	CINNAMTANNIN-A4	Bark	--	--		
0	CINNAMTANNINS	Plant	--	--		J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
3	CINNAMYL-ACETATE	Plant	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
3	CINNAMYL-ACETATE	Bark	--	--		
6	CINNAMYL-ALCOHOL	Plant	--	--		
6	CINNAMYL-ALCOHOL	Bark	--	--	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.	
0	CINNZEYLANINE	Bark	--	--	Wealth of India.	
0	CINNZEYLANINE	Plant	--	--		
0	CINNZEYLANOL	Bark	--	--	Wealth of India.	
0	CINNZEYLANOL	Plant	--	--		
0	CIS-2-METHOXY-DIHYDROCINNAMIC-ACID	Plant	--	--		
0	CIS-CINNAMIC-ACID	Bark	--	--	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.	
0	CIS-CINNAMIC-ALDEHYDE-CYCLIC-GLYCEROL-1,3-ACETAL	Bark	--	--	Wealth of India.	
12	COPPER	Bark	2	10	1.8708286933869704	
57	COUMARIN	Bark	--	--		
5	CRESOL	Plant	--	--		
10	CUMINALDEHYDE	Bark	--	--	Wealth of India.	
10	CUMINALDEHYDE	Plant	--	--		
3	DECANOIC-ACID	Plant	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	DIHYDROCINNAMIC-ACID		Plant --	--		
0	EO	Bark	2000	25000	1.2183677169545755	
0	EO	Leaf	3100	7700	-0.33732858173305946	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.
40	EPICATECHIN	Bark	--	--		
0	EPICATECHIN-(4-BETA->8)5-EPICATECHIN	Bark	--	--	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.	
2	ETHYL-CINNAMATE	Plant	--	--		
0	ETHYL-GUAIACOL	Plant	--	--		
76	EUGENOL	Leaf	2.8	400	-0.7691912627599603	
76	EUGENOL	Bark	1.8	375	-0.690064810647921	
76	EUGENOL	Plant	--	--		
17	FARNESOL	Plant	--	--		
0	FAT	Bark	35000	35000	1.1664647650566211	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
6	FENCHONE	Plant	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
6 FENCHONE		Leaf --	--			Wealth of India.
15 FIBER		Bark 270000	270000	1.0512083111257384	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses	
6 FURFURAL		Plant --	--			
11 GAMMA-TERPINENE		Plant --	--			
13 GERANIAL		Plant --	--			
18 GUAIACOL		Plant --	--			
18 GUAIACOL		Bark --	--			Wealth of India.
0 HEPTANOIC-ACID		Plant --	--			
0 HEX-3-EN-1-OL		Leaf --	--			Wealth of India.
0 HEX-3-EN-1-OL		Plant --	--			
2 HEXANOIC-ACID		Plant --	--			
3 HEXANOL		Plant --	--			
3 HEXANOL		Leaf --	--			Wealth of India.
2 HUMULENE		Plant --	--			
0 HYDROCINNAMALDEHYDE		Bark --	--			
0 HYDROCINNAMALDEHYDE		Plant --	--			
0 HYDROXYCINNAMALDEHYDE		Leaf --	--			Wealth of India.
12 IODINE		Bark 1	1	-1		
6 IRON		Bark 25	421	0.988562022605988		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
16	ISOEUGENOL	Plant --		--		
0	KETONES	Bark	--	--	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.	
0	KETONES	Leaf	25	37	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.	
60	LIMONENE	Bark	--	--	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.	
0	LINALOL	Plant	--	--		
53	LINALOOL	Leaf	0.6	1.5	-0.6464051224345422	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
53	LINALOOL	Bark	2.5	32	-1.1955124013453908	Wealth of India.
0	LYONIRESINOL-3-ALPHA-O-BETA-D-GLUCOPYRANOSIDE	Bark	--	--		Wealth of India.
65	MAGNESIUM	Bark	770	1680	-0.04773619944219244	
14	MANGANESE	Bark	167	600	3.337609687601768	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
1	MELILOTIC-ACID	Bark	--	--	Jeffery B. Harborne and H. Baxter, eds.	1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
1	MERCURY	Bark	60	60	1.7318980549844427	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
1	MERCURY	Plant	--	60	2.8767265147515726	Chen, H.C. and Lin, S.M. 1988. Determination of Mineral Elements in Certain Crude Drugs (Part 1), Kaohsiung J. Med. Sci., 4: 259-272.
4	METHYL-BENZOATE	Plant	--	--		
6	METHYL-CHAVICOL	Plant	--	--		
5	METHYL-CINNAMATE	Plant	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
20	METHYL-EUGENOL	Bark	--	--	Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.	
0	METHYL-FURFURYL	Plant	--	--		
0	METHYL-O-CUMARALDEHYDE	Bark	--	--	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.	
0	METHYL-OCTANOATE	Plant	--	--		
0	METHYL-SALICYALDEHYDE	Bark	--	--	Guenther, E., The Essential Oils, 6 volumes, D. van Nostrand, New York, 1948-1952.	
21	METHYL-SALICYLATE	Bark	--	--	Wealth of India.	
21	METHYL-SALICYLATE	Plant	--	--		
3	MUCILAGE	Bark	--	--	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.	
0	NONANAL	Plant	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
2	NONANOIC-ACID	Plant	--	--		
1	O-ANISALDEHYDE	Plant	--	--		
6	O-METHOXYCINNAMALDEHYDE	Bark	--	--	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.	
0	O-METHYL-COUMARALDEHYDE	Bark	--	--	Wealth of India.	
5	OCTANOIC-ACID	Plant	--	--		
25	OPC	Bark	--	--	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.	
16	P-CYMENE	Plant	--	--		
26	PHENOL	Plant	--	--		
0	PHENOLS	Leaf	225	560	-0.43896235712958537	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	PHENOLS	Bark	27	335	-1	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
0	PHENYL-ETHYL-ALCOHOL	Plant	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
0	PHENYLETHYL-ACETATE	Plant	--	--		
0	PHENYLPROPYL-ACETATE	Plant	--	--		
4	PHOSPHORUS	Bark	1000	1000	-0.17573390155376353	
14	POTASSIUM	Bark	3020	15500	2.05417764366398	
17	PROCYANIDIN-A-2	Bark	--	--		
1	PROCYANIDIN-B-1	Bark	--	--		
1	PROCYANIDIN-B-2	Bark	--	--		
0	PROCYANIDIN-B-5	Bark	--	--		
0	PROCYANIDIN-B-7	Bark	--	--		
0	PROCYANIDIN-B26C-BETA-D-GLUCOPYRANOSIDE	Bark	--	--		Wealth of India.
0	PROCYANIDIN-B28-BETA-D-GLUCOPYRANOSIDE	Bark	--	--		Wealth of India.
0	PROCYANIDIN-C-1	Bark	--	--		
27	PROCYANIDINS	Plant	--	--	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.	
0	PROTEIN	Bark	43000	43000	-1.339513177571366	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
15	RIBOFLAVIN	Bark	1	2	-0.373874772923094	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	RUBIDIUM	Bark	30	30	1.2107130728039	

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
5	SABINENE	Plant	--	--		
29	SAFROLE	Plant	--	--		
0	SALICYALDEHYDE	Bark	--	--		
34	SALICYLIC-ACID	Plant	--	--		
1	SODIUM	Bark	42	287	-0.13196665474928823	
0	STRONTIUM	Bark	50	50	-1.3471506281091268	
3	STYRENE	Plant	--	--		
14	SULFUR	Bark	1200	1200	-0.12803687993289598	
35	TANNIN	Plant	--	--		
35	TANNIN	Bark	--	--		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
23	TERPINEN-4-OL	Plant	--	--		
9	TERPINOLENE	Plant	--	--		
31	THIAMIN	Bark	1	1	-0.0940720868383599	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
0	TITANIUM	Bark	50	50	1.5075567228888183	
0	TRANS-2-METHOXY-CINNAMALDEHYDE	Plant	--	--		
0	TRANS-2-METHOXY-CINNAMIC-ACID	Plant	--	--		
7	TRANS-CINNAMALDEHYDE	Plant	--	--		

Chemical Plant Part		Low PPM	High PPM	StdDev	Reference	Citation
7	TRANS-CINNAMALDEHYDE	Bark	3000	23750	-1	Charalambous, G. (Ed.). 1994. Spices, Herbs and Edible Fungi. Elsevier Science B. V. Amsterdam. 764 pp.
7	TRANS-CINNAMALDEHYDE	Leaf	3000	5390	1	
0	TRANS-CINNAMIC-ACID	Plant	--	--		
0	TRANS-CINNAMIC-ACID	Bark	250	2500		Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
77	ZINC	Bark	4	10	-0.2720706985995574	